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(54) Title: METHODS FOR PROCESSING GENOMIC INFORMATION AND USES THEREOF

A

Randomise the list



Number list



Separate the datasets of
gene names and gene
annotation information.

B

Annotation

Name	Chromosome	Copies	Start	Stop
CYP2D6	3	1	56	1065
ACO1	5	1	7865	8763
HIA1	12	1	12	2000
ABCA6	x	1	5748	6003



Annotation

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Gene names

1	CYP2D6
2	ACO1
3	HIA1
4	ABCA6

Gene data

1	3, 1, 56, 1065
2	5, 1, 7865, 8763
3	12, 1, 12, 2000
4	x, 1, 5748, 6003

(57) Abstract: Methods for processing and storing genomic information in a secure manner are described. In particular, methods for processing, splitting and storing genomic information or portions thereof are disclosed. An individual's genomic information is digitized and a splitting algorithm applied to fragment and randomise the digitized genomic information into at least two separate datasets. Access to at least one dataset is retained by the individual and the second dataset is stored on a central server as a secure database record. Each dataset in isolation presents uninformative data and it is only when all datasets are combined that the data is capable of being presented into a useable and informative format.



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